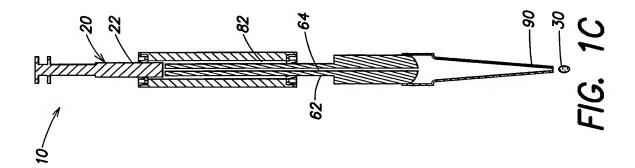
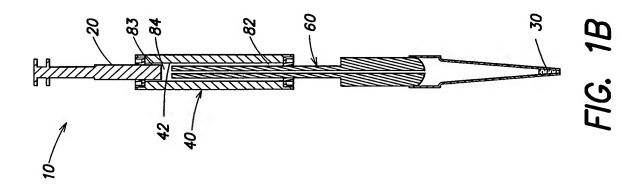
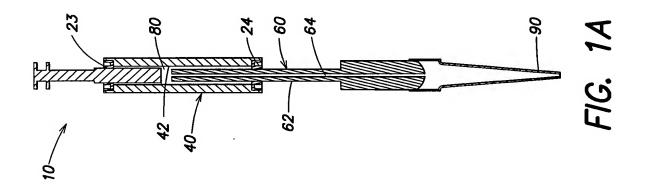


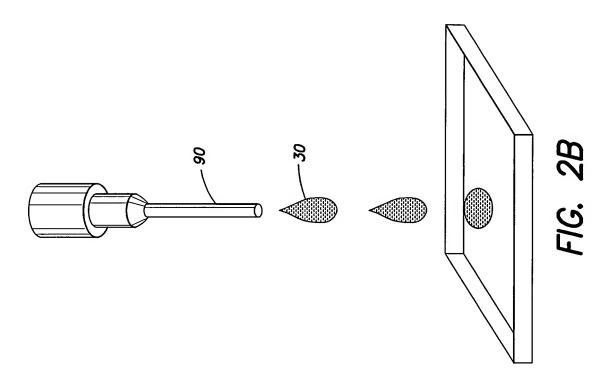
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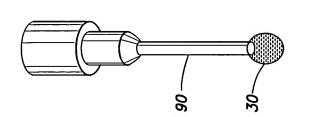




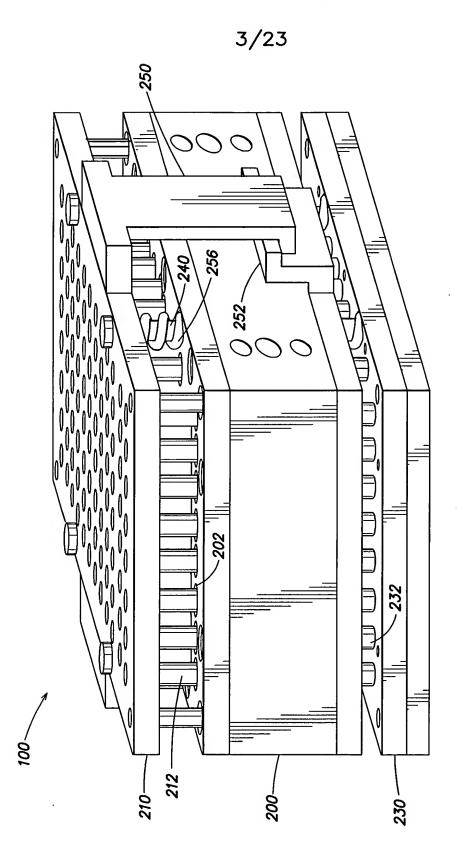


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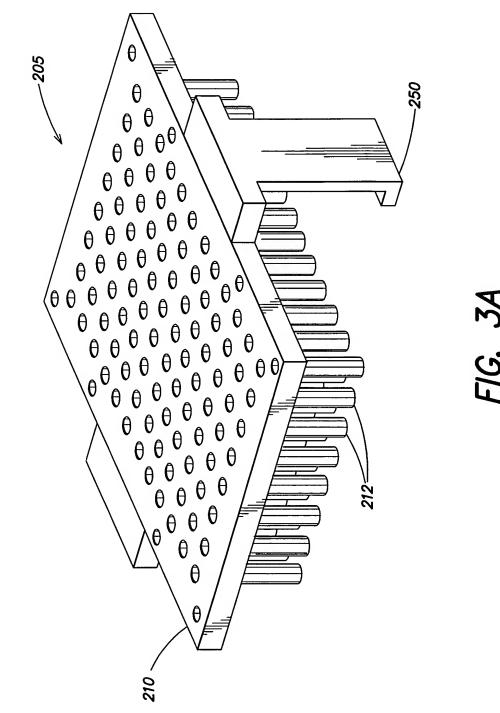


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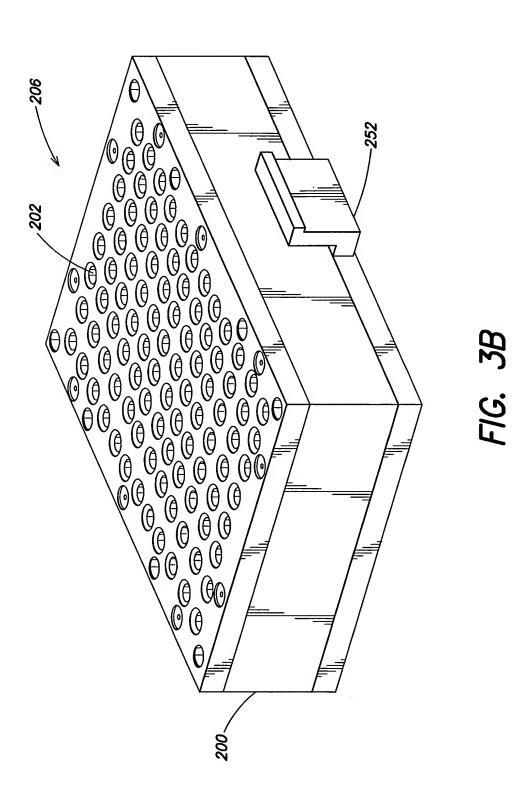


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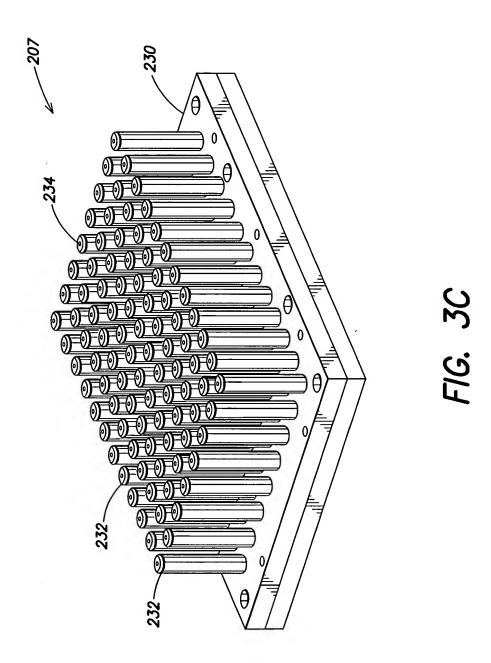
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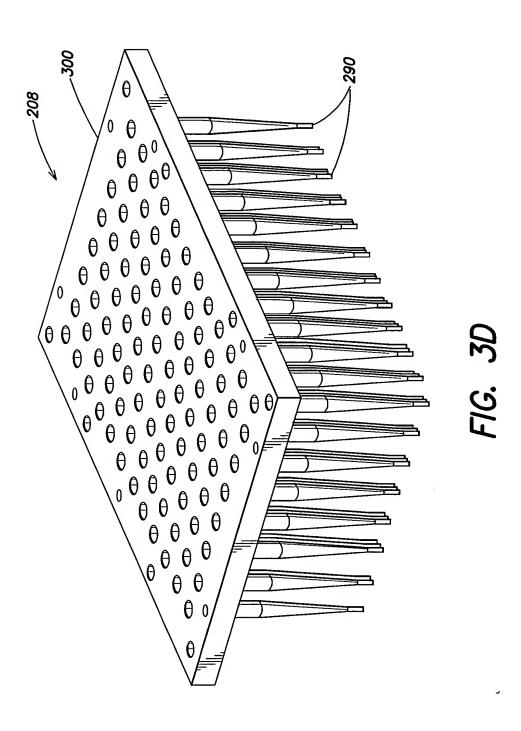
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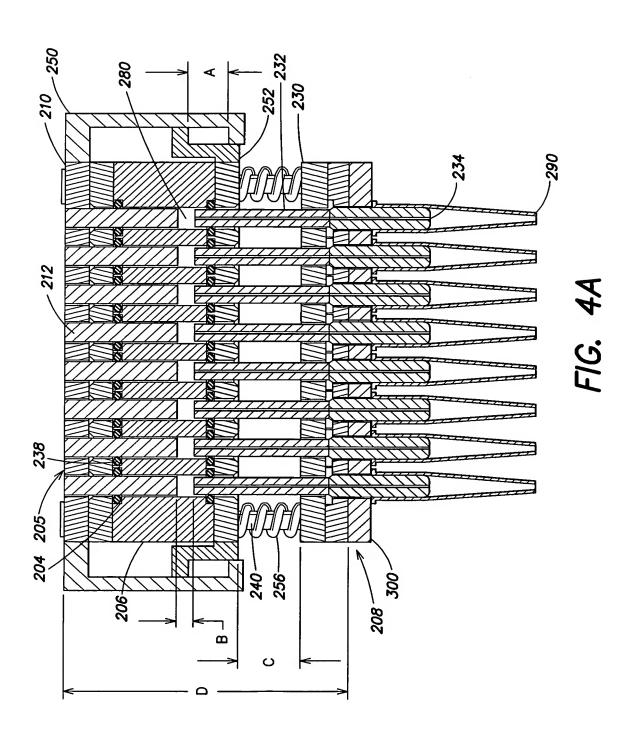
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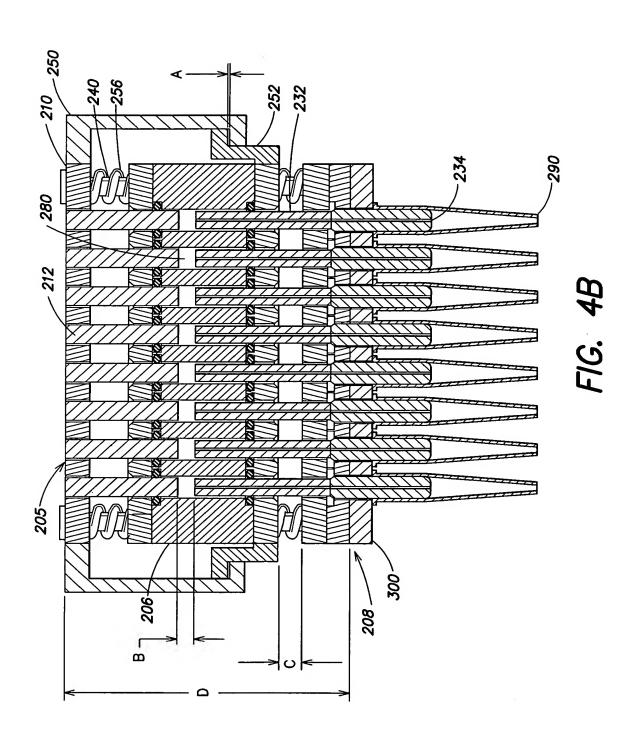
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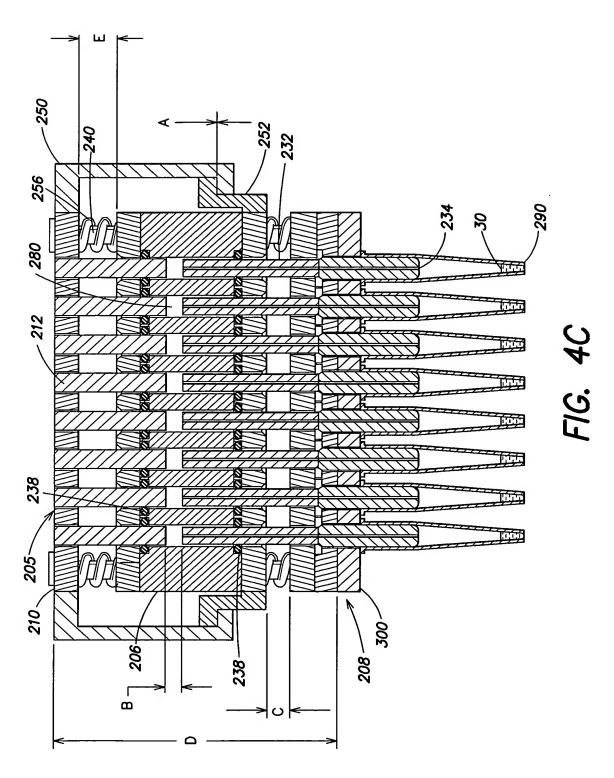
Replacement Sheet
PIPETTING MODULE
H. Donald Schwartz
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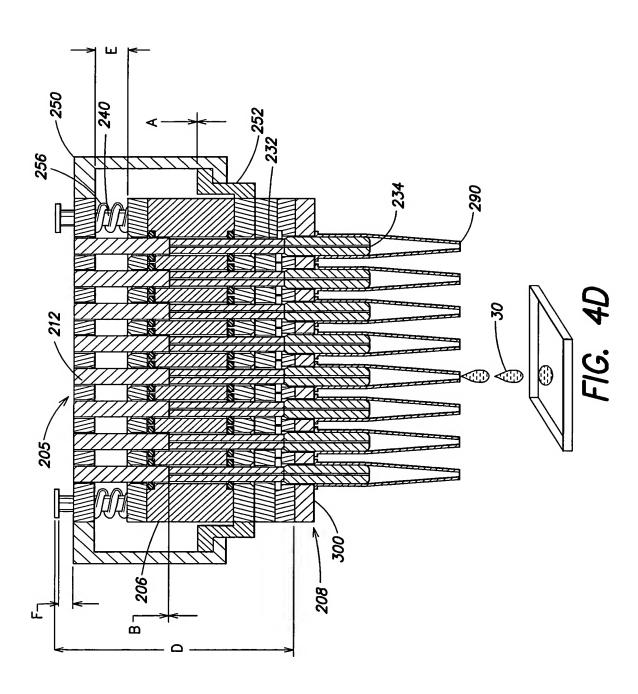
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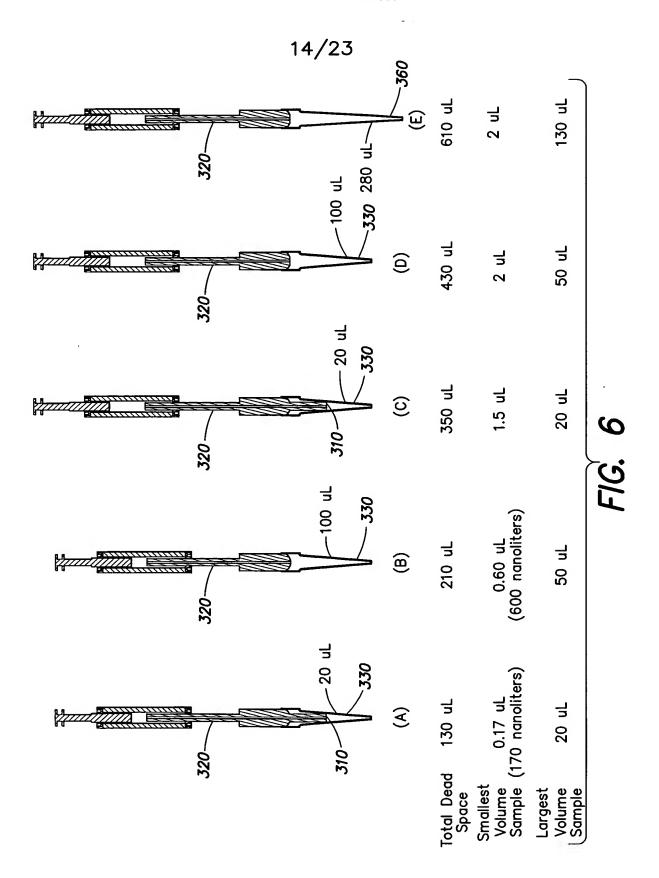
		•	
Maximum Tip Escape Velocity (meters/sec) for tip diameters (inches) 0.020 0.016 0.012 0.010	0.10 0.16 0.29 0.41	0.4 0.6 1.0 1.5	 Hanging Drop Blastoff
Flow Max (uL/sec)	20	69	
Res (mm/ uL)	2.	0.51	
Res (uL/ (inch)	4	20	
Cross Sectional Area (Square Inches)	0.0009	0.003	
Diameter (Inches)	0.033	0.062	
Cross Section Hypothetical Fine	Resolution Conventional Pipetter	Conventional	

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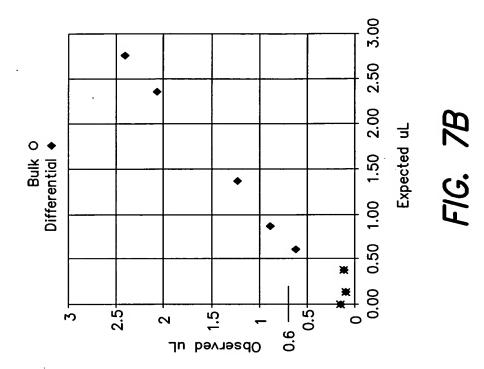
ocity es) 110	9		_	
Maximum Tip Escape Velocity (meters/sec) for tip diameters (inches) 0.020 0.016 0.012 0.010	9 === @	13	0.41	₩
	4 @	თ	0.29	
n Tip (mete diam 0.016	8 = 5.3	ស	0.16	
Maximur for tip 0.020	4.	ю	0.10	₩
Flow Max (uL/sec)	282	635	20	
Res Res (uL/ (mm/ inch) uL)	0.13	0.062	 8.	5B
Res (uL/ inch)	202	454	4	FIG. 5B
Cross Sectional Area (Square Inches)	0.0123	0.026	0.0009	
Diameter (Inches)	0.125	0.184	0.033	
Cross Section	Conventional Pipetter	PRESENT INVENTION Bulk Mode	Differential Mode (fine resolution)	
Ö				

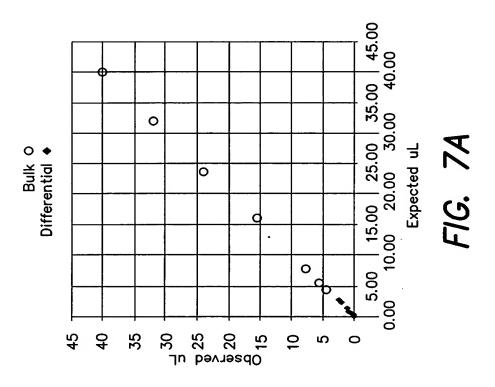
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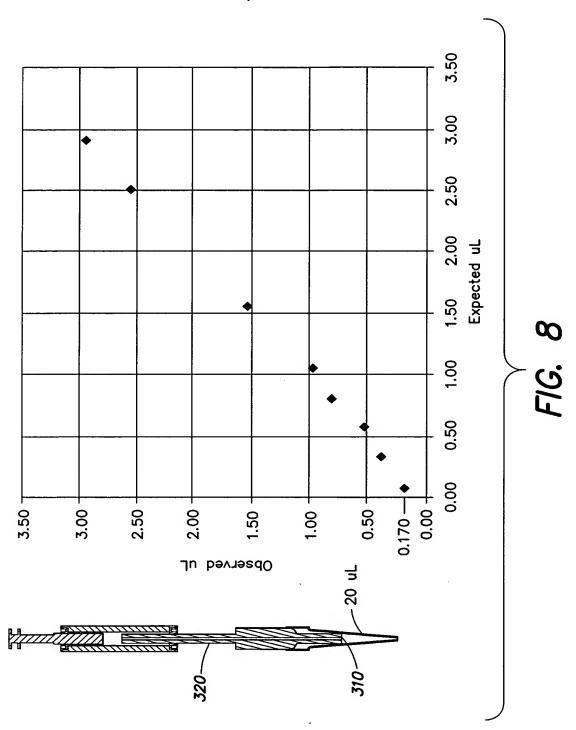


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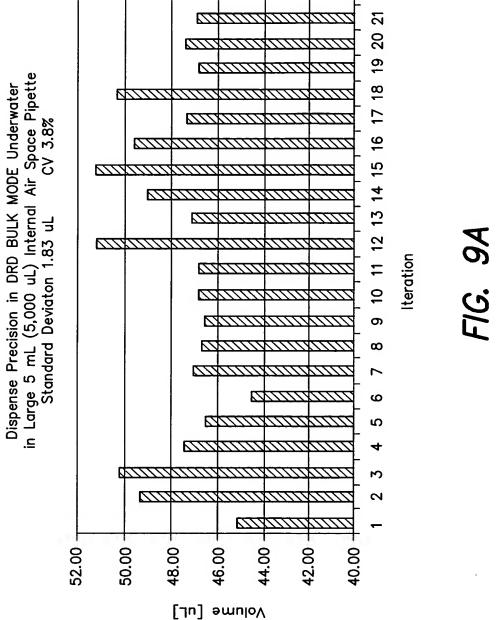




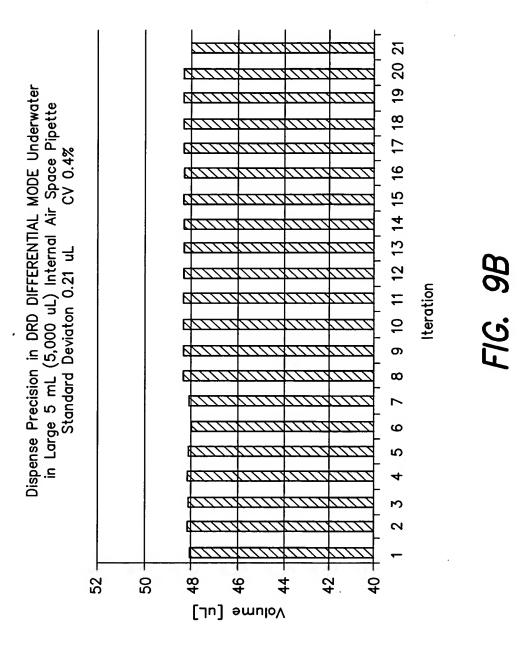
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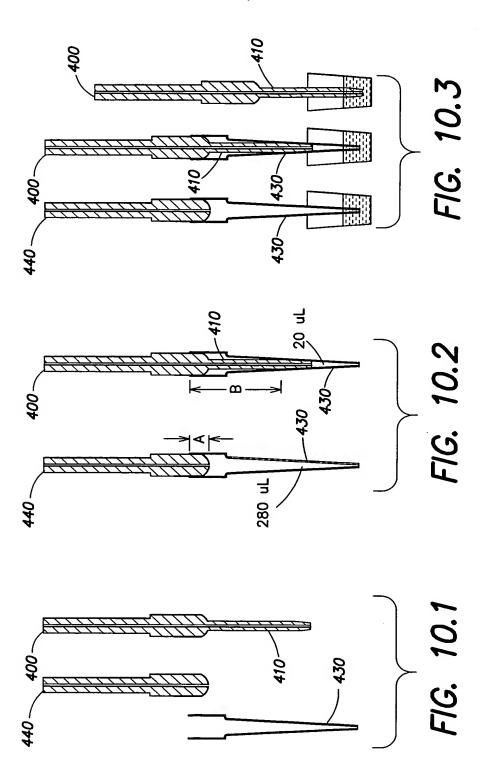


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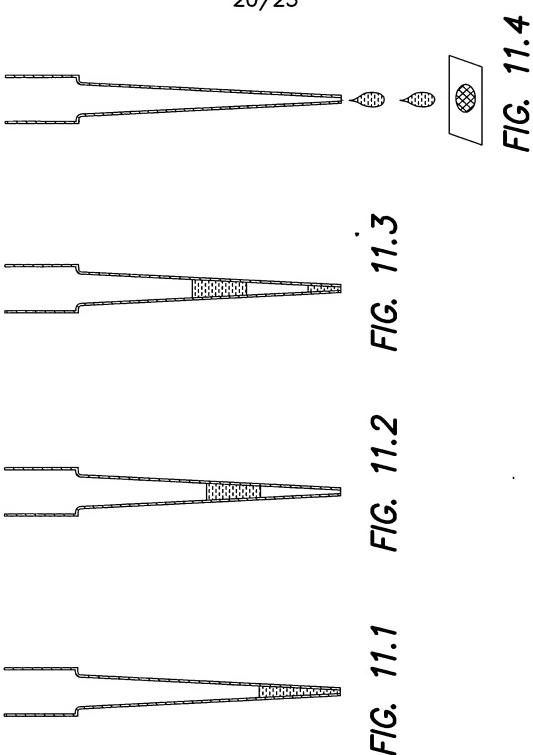


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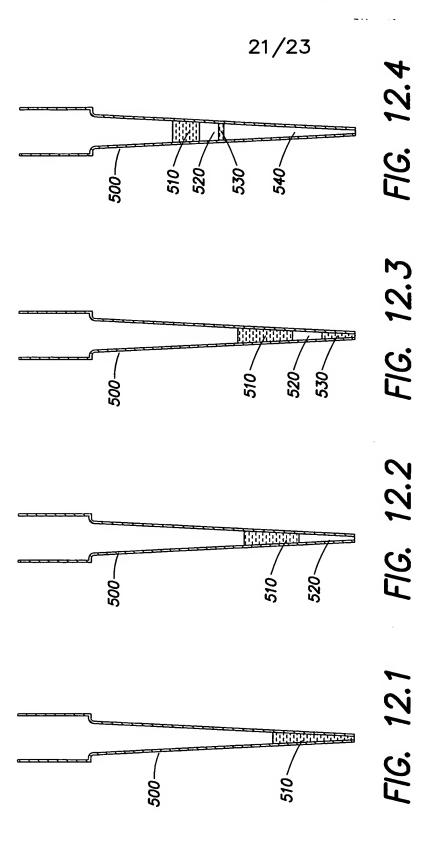
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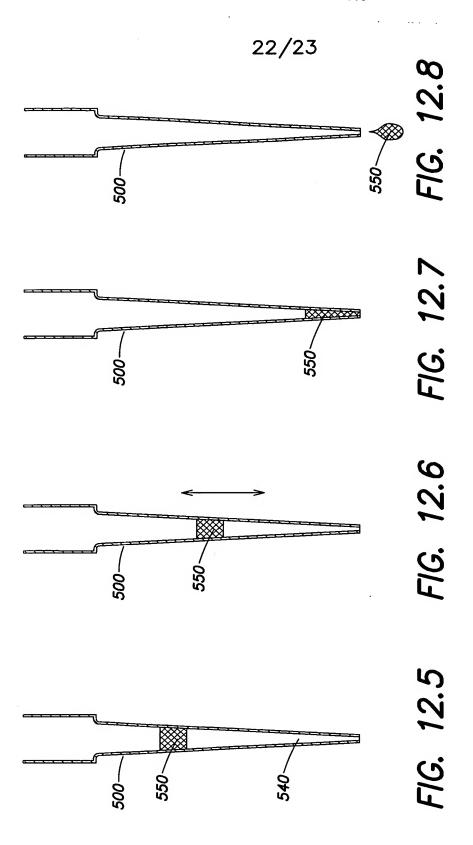
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